

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: STREETWORKS

Report Number: P321631

Luminaire Tested: **GAN-SA7A-750-U-T3R-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P321631  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA7A-750-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25351 lumens  
Efficiency: N/A  
Efficacy: 112.2 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G4

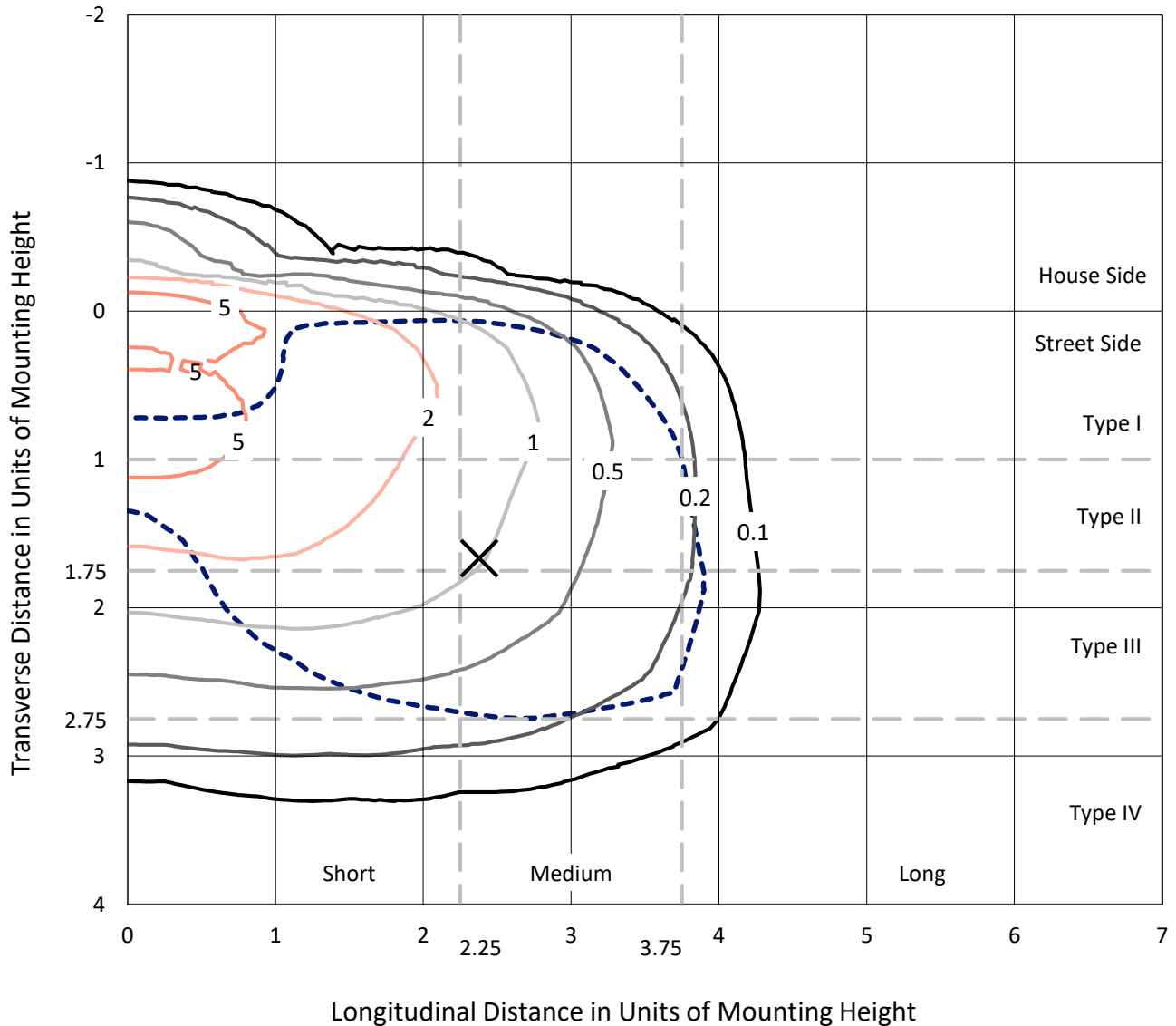
Input Watts (W): 226  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

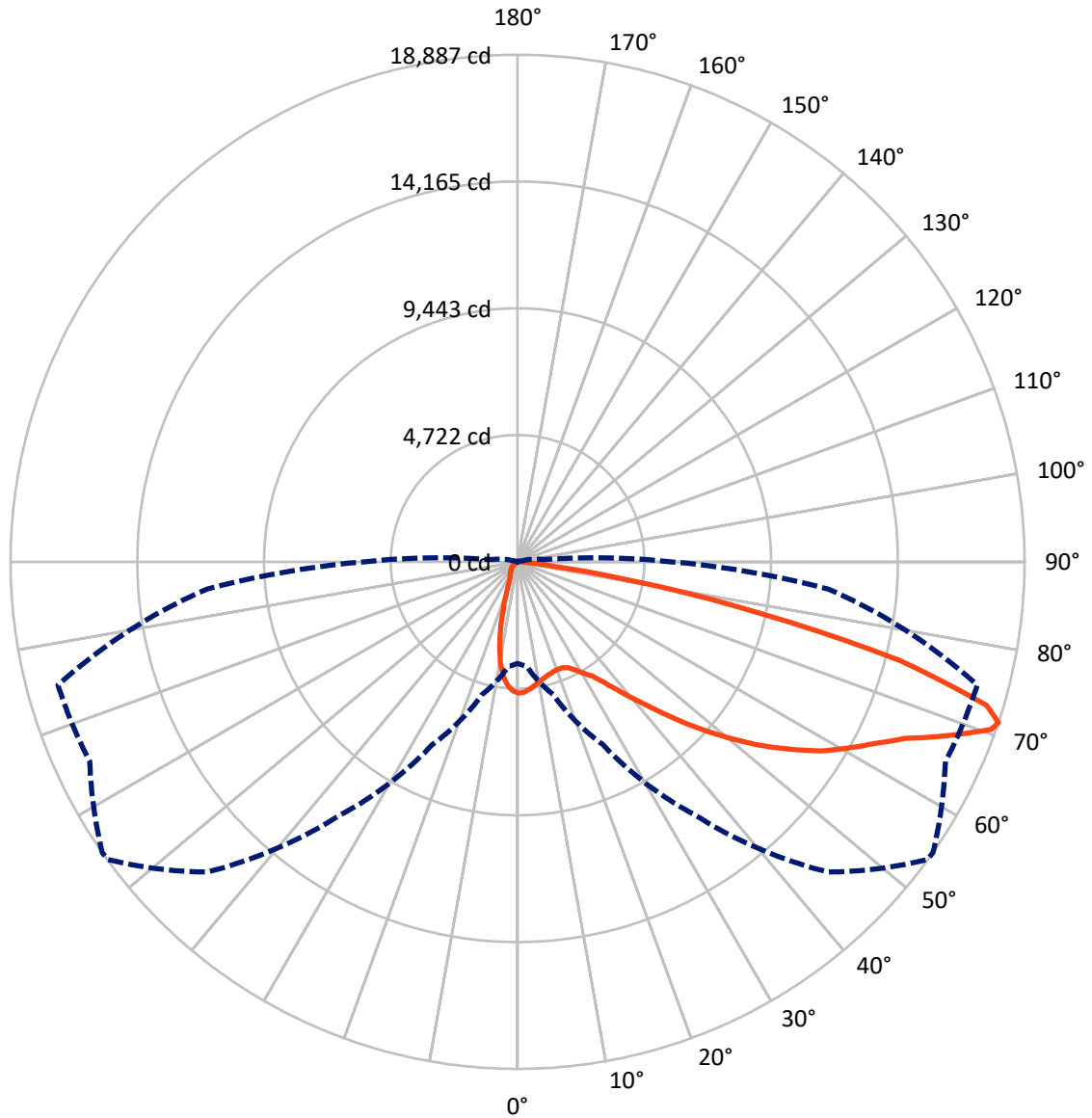
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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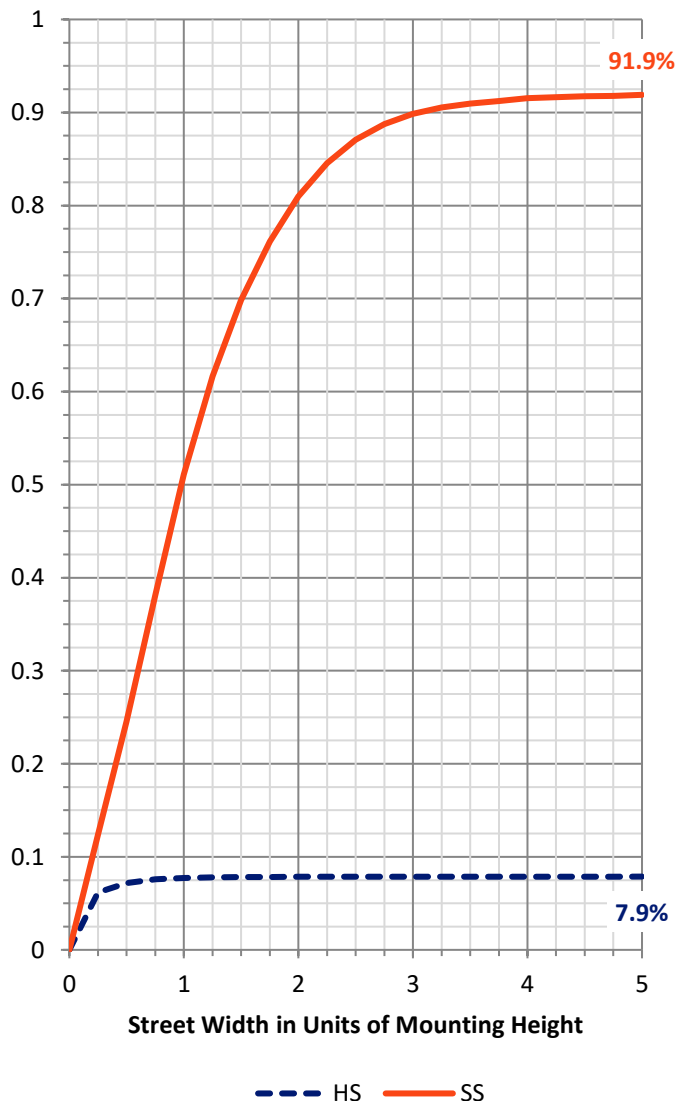
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2007.1	0.0	2007.1
	% Fixture	7.9	0.0	7.9
<b>Street Side</b>	Lumens	23343.9	0.0	23343.9
	% Fixture	92.1	0.0	92.1
<b>Total</b>	Lumens	25351.0	0.0	25351.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	416.9	1.6
10°-20°	941.1	3.7
20°-30°	1512.4	6.0
30°-40°	2569.6	10.1
40°-50°	3988.3	15.7
50°-60°	5362.1	21.2
60°-70°	6559.7	25.9
70°-80°	3835.3	15.1
80°-90°	165.8	0.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	25351.0	100.0
0°-180°	25351.0	100.0

**Coefficient of Utilization**

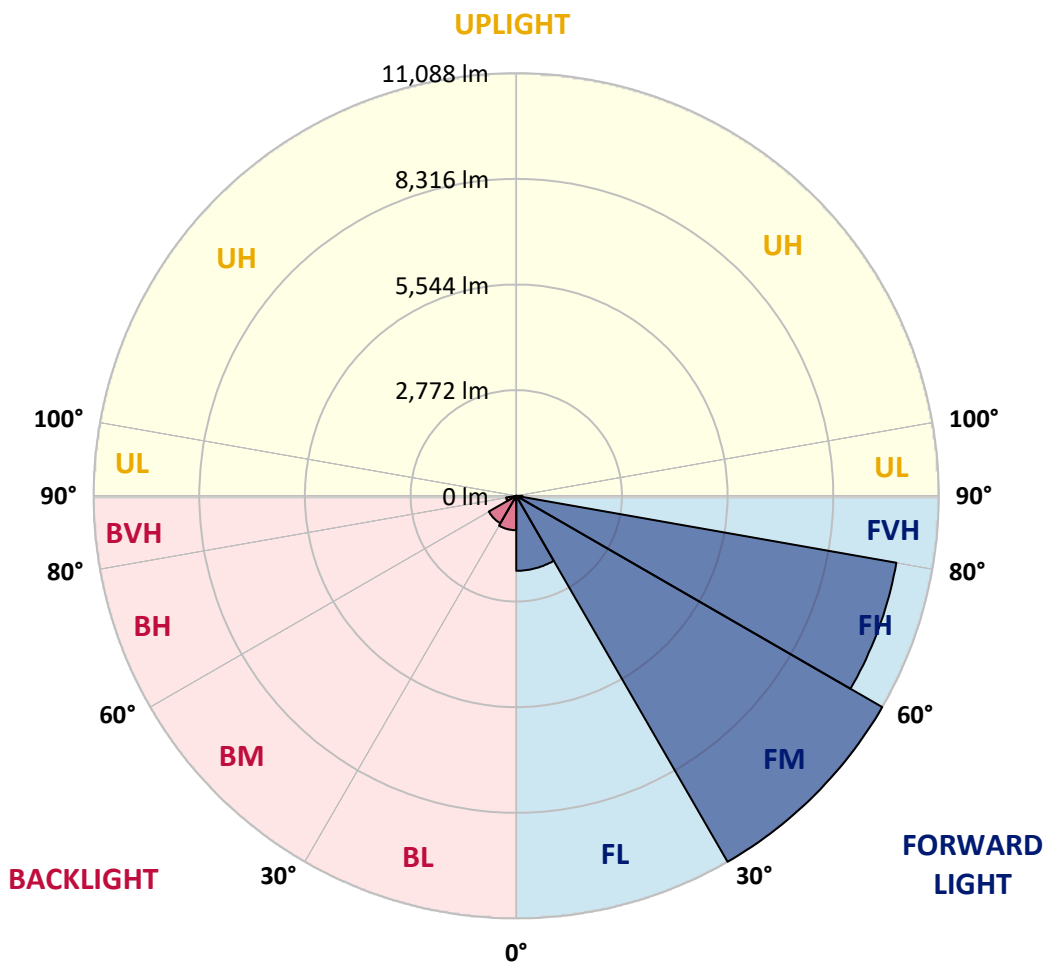


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1966.9	7.8			
FM (30°-60°)	11087.8	43.7			
FH (60°-80°)	10126.0	39.9			G4/12000
FVH (80°-90°)	163.2	0.6			G2/225
BL (0°-30°)	903.4	3.6	B2/1000		
BM (30°-60°)	832.2	3.3	B1/1000		
BH (60°-80°)	268.9	1.1	B1/500		G1/500
BVH (80°-90°)	2.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	4889.0	4889.0	4889.0	4889.0	4889.0	4889.0	4889.0	4889.0	4889.0	4889.0	4889.0
2.5°	4745.6	4751.3	4771.8	4780.9	4802.5	4838.9	4857.2	4858.3	4887.9	4899.3	4908.4
5°	4409.8	4444.0	4478.1	4514.5	4580.5	4668.2	4754.7	4762.7	4858.3	4928.9	4966.4
7.5°	4120.7	4151.4	4192.4	4250.4	4343.8	4481.5	4626.1	4643.2	4824.1	4984.6	5068.9
10°	3823.6	3848.6	3907.8	3993.2	4121.8	4306.2	4500.9	4529.3	4793.4	5059.8	5207.8
12.5°	3506.0	3520.8	3592.5	3715.4	3904.4	4138.9	4395.0	4432.6	4774.1	5146.3	5371.7
15°	3264.7	3271.5	3339.8	3467.3	3683.6	3988.6	4313.0	4358.6	4778.6	5249.9	5550.4
17.5°	3203.2	3206.6	3243.0	3330.7	3521.9	3854.3	4248.2	4303.9	4792.3	5351.2	5730.2
20°	3452.5	3428.6	3391.0	3377.4	3459.3	3773.5	4209.5	4272.1	4810.5	5441.1	5891.9
22.5°	4136.6	4066.0	3910.1	3701.8	3575.4	3779.2	4219.7	4282.3	4868.5	5551.5	6078.6
25°	5152.0	5054.1	4788.9	4379.1	3985.2	3943.1	4305.1	4368.8	4981.2	5683.6	6257.3
27.5°	6307.4	6210.6	5886.2	5301.1	4629.5	4267.5	4500.9	4560.1	5148.6	5800.8	6393.9
30°	7413.8	7386.5	7004.0	6339.2	5440.0	4793.4	4753.6	4803.7	5272.6	5871.4	6502.0
32.5°	8351.8	8308.5	8001.2	7354.6	6367.7	5425.2	5050.7	5065.5	5366.0	5962.5	6643.2
35°	9221.4	9167.9	8898.2	8286.9	7319.3	6196.9	5508.3	5486.6	5569.7	6145.7	6848.1
37.5°	9980.7	10029.6	9730.3	9148.6	8173.0	6999.5	6125.2	6060.3	5888.5	6444.0	7145.2
40°	10615.9	10615.9	10459.9	9975.0	9095.1	7829.3	6823.0	6737.6	6367.7	6903.8	7521.9
42.5°	10844.7	10893.6	10951.7	10677.3	9920.4	8692.1	7600.5	7511.7	7042.7	7556.1	7997.7
45°	10858.3	10935.7	11232.8	11231.7	10665.9	9549.3	8477.0	8434.9	7907.8	8393.9	8587.4
47.5°	10665.9	10762.7	11252.2	11529.9	11256.7	10347.2	9435.4	9383.1	8924.3	9420.6	9204.4
50°	10368.8	10475.8	11045.0	11647.2	11658.5	11041.6	10445.1	10366.6	10043.3	10594.2	9841.8
52.5°	9837.3	10044.4	10859.5	11674.5	11922.6	11641.5	11405.8	11371.7	11295.4	11724.6	10349.5
55°	8700.1	8930.0	10393.9	11683.6	12167.4	12173.1	12306.2	12315.4	12469.0	12780.9	10727.4
57.5°	8162.8	8292.6	9581.1	11726.8	12530.5	12776.4	13223.7	13294.3	13532.2	13783.8	11158.8
60°	7824.7	7978.4	9180.5	11667.7	13100.8	13567.5	14074.0	14097.9	14352.9	14818.5	11742.8
62.5°	7554.9	7706.3	8927.7	11440.0	13741.6	14519.1	14905.0	14907.3	15098.5	16051.3	12406.4
65°	6889.0	7016.5	8416.6	11183.9	14165.1	15460.5	15870.3	15855.5	16011.4	17351.2	13177.0
67.5°	5926.0	6023.9	7372.8	10212.9	14005.7	16316.5	17327.3	17278.4	17089.4	18474.7	13479.8
70°	4581.7	4617.0	5811.1	8511.1	12512.3	16645.5	18735.4	18710.4	17750.8	18273.3	12370.0
71°	3787.1	3903.3	5121.2	7511.7	11511.7	16341.5	18872.0	18886.8	17584.6	17724.6	11606.2
72.5°	2199.2	2298.2	3712.0	5768.9	9773.5	15073.5	18164.0	18271.0	16808.3	16121.9	9913.5
75°	471.3	504.3	1376.2	2792.3	5376.2	10564.6	14337.0	14718.3	13699.5	10967.6	5975.0
77.5°	327.8	354.0	589.6	1266.9	1776.9	5220.3	8906.1	9336.4	8184.4	4121.8	1912.4
80°	259.5	289.1	459.9	626.1	480.4	1683.6	4171.9	4434.8	2729.7	919.8	322.1
82.5°	144.6	171.9	358.6	338.1	184.4	319.9	1167.9	1320.4	546.4	185.5	76.3
85°	42.1	51.2	231.1	245.9	78.5	61.5	199.2	247.0	103.6	48.9	34.1
87.5°	0.0	0.0	111.6	94.5	22.8	9.1	18.2	20.5	20.5	20.5	22.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4889.0	4889.0	4889.0	4889.0	4889.0	4889.0	4889.0	4889.0	4889.0	4889.0	4889.0
2.5°	4908.4	4916.4	4887.9	4850.3	4810.5	4761.5	4710.3	4670.5	4669.3	4650.0	4630.6
5°	4968.7	4964.2	4885.6	4766.1	4624.9	4478.1	4338.1	4179.9	4127.5	4062.6	4041.0
7.5°	5080.3	5048.4	4882.2	4620.4	4310.8	4003.4	3685.8	3366.0	3229.4	3106.4	3084.8
10°	5220.3	5159.9	4860.6	4401.8	3833.8	3266.9	2787.7	2352.9	2161.6	2014.8	2008.0
12.5°	5366.0	5273.8	4800.2	4071.7	3208.9	2412.1	1860.0	1432.0	1272.6	1170.2	1179.3
15°	5518.5	5380.8	4670.5	3626.6	2497.4	1636.9	1142.9	891.3	827.5	801.4	808.2
17.5°	5674.5	5454.8	4489.5	3090.5	1795.1	1056.3	791.1	720.5	720.5	726.2	728.5
20°	5809.9	5494.6	4223.1	2489.5	1216.9	769.5	692.1	681.8	687.5	696.6	697.8
22.5°	5944.2	5496.9	3875.9	1880.5	851.5	673.9	659.1	654.5	657.9	668.2	669.3
25°	6053.5	5469.6	3441.1	1337.5	679.6	635.2	628.3	626.1	628.3	640.9	640.9
27.5°	6097.9	5370.5	2910.7	940.2	609.0	591.9	589.6	591.9	595.3	604.4	605.6
30°	6102.5	5197.5	2332.4	680.7	552.1	533.9	538.4	546.4	543.0	540.7	543.0
32.5°	6113.9	4997.2	1768.9	560.0	504.3	475.8	470.1	470.1	456.5	448.5	443.9
35°	6151.4	4761.5	1282.9	503.1	455.3	422.3	400.7	375.6	349.5	335.8	332.4
37.5°	6210.6	4514.5	918.6	465.6	412.1	374.5	333.5	289.1	251.6	241.3	241.3
40°	6318.7	4259.5	679.6	436.0	377.9	331.2	269.8	211.7	177.6	171.9	171.9
42.5°	6489.5	3990.9	541.8	409.8	348.3	286.9	206.0	153.7	128.6	125.2	124.1
45°	6667.1	3694.9	473.5	384.7	316.4	235.6	152.5	113.8	99.0	95.6	95.6
47.5°	6844.6	3379.6	440.5	360.8	285.7	183.3	113.8	89.9	83.1	83.1	84.2
50°	6994.9	3050.7	416.6	334.7	245.9	138.9	89.9	76.3	74.0	78.5	79.7
52.5°	7032.5	2727.4	387.0	301.7	196.9	105.9	74.0	67.2	67.2	67.2	67.2
55°	7009.7	2477.0	348.3	260.7	145.7	84.2	63.7	59.2	58.1	58.1	58.1
57.5°	7087.1	2329.0	278.9	202.6	104.7	68.3	55.8	52.4	50.1	48.9	48.9
60°	7243.1	2232.2	199.2	145.7	78.5	56.9	47.8	44.4	41.0	38.7	38.7
62.5°	7450.2	2148.0	148.0	108.1	60.3	45.5	39.8	36.4	31.9	29.6	29.6
65°	7609.6	1997.7	112.7	80.8	45.5	36.4	30.7	29.6	22.8	20.5	19.4
67.5°	7366.0	1667.6	91.1	59.2	34.1	28.5	23.9	22.8	13.7	11.4	11.4
70°	6317.6	1161.1	72.9	43.3	25.0	22.8	19.4	14.8	10.2	9.1	9.1
71°	5729.1	969.8	66.0	36.4	21.6	21.6	18.2	12.5	9.1	8.0	8.0
72.5°	4759.3	688.7	55.8	28.5	19.4	22.8	19.4	11.4	9.1	8.0	6.8
75°	2762.7	288.0	38.7	19.4	14.8	27.3	25.0	10.2	6.8	5.7	5.7
77.5°	831.0	105.9	21.6	12.5	11.4	23.9	28.5	9.1	3.4	1.1	1.1
80°	151.4	45.5	13.7	8.0	8.0	14.8	21.6	4.6	0.0	0.0	0.0
82.5°	53.5	22.8	8.0	4.6	3.4	6.8	10.2	0.0	0.0	0.0	0.0
85°	30.7	15.9	4.6	2.3	0.0	1.1	2.3	0.0	0.0	0.0	0.0
87.5°	20.5	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)